

EUROPEAN PATENT OFFICE

Patent Abstract Japan

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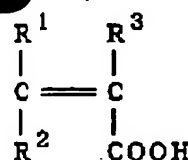
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APPLICANT : NOF CORP;

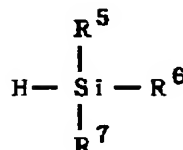
INVENTOR : ITO MASAYASU;

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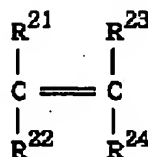
TITLE : PRODUCTION OF POLYMERIZABLE
TRIORGANOSILYL UNSATURATED
CARBOXYLATE



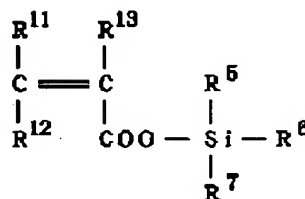
I



II



III



IV

ABSTRACT : PROBLEM TO BE SOLVED: To provide the subject high-purity compound without causing by-products in high yield by reacting an unsaturated carboxylic acid with a triorganosilane in the presence of a reducing double bond by using a dehydrogenating catalyst.

SOLUTION: An unsaturated carboxylic acid of formula I (R^1 and R^2 are each H, methyl or $COOR^4$; R^4 is H, an alkyl, an aryl, an aralkyl, etc.; R^3 is H, methyl, CH_2COOR^4 , etc.) is reacted with a triorganosilane of formula II (R^5 to R^7 are each an alkyl, a cycloalkyl, an aryl or an aralkyl) in the presence of a compound of formula III (R^{21} and R^{22} are each H, methyl, aryl, etc.; R^{23} is H, methyl, etc.; R^{24} is an alkyl, an alkenyl, an aryl, etc.), and a dehydrogenating catalyst at -20 to 250°C to give a compound of the formula (R^{11} and R^{12} are each H, methyl or $COOR^{14}$; R^{14} is an alkyl, an aryl, a triorganosilyl, etc.; R^{13} is H, methyl, CH_2COOR^{14} , etc.). No triorganosilyl saturated carboxylate as an unfavorable by-product is formed by this method.

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